

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 9647
LOCATION WCR 39 & 32
FOREMAN Grant Lowe

TREATMENT REPORT

DATE 3-27-11	WELL NAME Wardell H. 19-32D	SECTION 19	TWP 3N	RGE 65W	COUNTY Weld	FORMATION
CHARGE TO Noble		OWNER				
MAILING ADDRESS		OPERATOR Noble				
CITY		CONTRACTOR Ensign #128				
STATE ZIP CODE		DISTANCE TO LOCATION				
TIME ARRIVED ON LOCATION 6:10 pm		TIME LEFT LOCATION 3:00 AM				

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE 12 1/4	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH 803	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
PBTD 753.11	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE 8 5/8	TUBING CONDITION		TUBING		
CASING DEPTH 796.49		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT 24 lbs	PACKER DEPTH		[] SURFACE PIPE		BREAKDOWN BPM
CASING CONDITION 6000			[] PRODUCTION CASING		INITIAL BPM
			[] SQUEEZE CEMENT		FINAL BPM
			[] ACID BREAKDOWN		MINIMUM BPM
			[] ACID STIMULATION		MAXIMUM BPM
			[] ACID SPOTTING		AVERAGE BPM
			[] MISC PUMP		
			[] OTHER		HYD HHP = RATE X PRESSURE X 40.8

PRESSURE SUMMARY			
BREAKDOWN or CIRCULATING	psi	AVERAGE	psi
FINAL DISPLACEMENT	psi	ISIP	psi
ANNULUS	psi	5 MIN SIP	psi
MAXIMUM	psi	15 MIN SIP	psi
MINIMUM	psi		

INSTRUCTIONS PRIOR TO JOB *Rig up, Safety meeting per Co. man, circulate 50 bbls H₂O with KCL & Dye x 1 bin 2nd 10 bbls, mix and pump til dye is seen pump tub only, @ 15.2 lbs with 1.27 yield, drop plug, displace 47.9 bbls, bump plug @ 150 psi over lift press, wait 5 min, release press, Wash up, Rigdown, H₂O tested good! we have 700 sks, 32 oz Dye, 10 gts KCL*

JOB SUMMARY
DESCRIPTION OF JOB EVENTS *Safety meeting 1:00 am, circ. 1:13 am, cement 1:23 am to 1:56 am, drop plug 1:57 am, displace 1:58 am, bump plug 2:16 am
10 bbls - 300 psi @ 2:00 am @ 7.0 bbls/min
20 bbls - 300 psi @ 2:10 am @ 7.0 bbls/min
30 bbls - 500 psi @ 2:11 am @ 7.0 bbls/min
40 bbls - 520 psi @ 2:13 am @ 6.0 bbls/min
47.9 bbls - 350 psi @ 2:16 am @ 1.0 bbls/min
Bump plug @ 2:16 am @ 570 lbs, float collar held.
used 368 sacks, 83,23 bbls slurry, 41% excess
left with 332 sacks, 16 oz dye, 5 gts KCL*

30 bbls slurry to pit

Jan Lewman
AUTHORIZATION TO PROCEED

TITLE

DATE **3-27-11**